

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

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LED machine light, 24 V DC, emission angle 75 °/95 °, color temperature 5000 K, length 510 mm, diameter 70 mm, M12 connector, Light housing: Anodized aluminum, Pane: Single-pane safety glass (ESG, thermally toughened float glass), pivoting, resistant to coolants and lubricants

Product Description

This LED machine light is designed to provide illumination inside or on machinery.

You can use the light in harsh environments.

This is possible thanks to:

- The high degree of protection
- Resistance to common cooling agents and lubricants
- Resistance to vibrations and shock
- The 4 mm thick safety glass

The 70 mm diameter enables easy replacement of traditional tube lights.

Mounting is by means of holders or brackets (neither of which are supplied as standard) in which the light can swivel and the lighting can therefore be optimally aligned.

Your advantages

- ✓ Easy mechanical replacement of traditional tube lights (retrofit), thanks to 70 mm diameter
- ✓ Plug-in supply line enables free choice of the cable length as well as quick and easy installation
- ✓ Focused illumination, thanks to swivel action
- ✓ IP67 protection and resistance to cooling agents and lubricants enables use in machine tools
- ✓ Can be used at high temperatures and can be subjected to strong vibrations and shocks
- ✓ Safety glass enables use even in environments with potential mechanical strain
- ✓ ETL approval permits use on the North American market
- ✓ Particularly economical thanks to energy-efficient LED technology and an LED service life of at least 60,000 h



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 213910
GTIN	4055626213910
Weight per Piece (excluding packing)	1.000 g

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

Custom tariff number	94054099
Country of origin	Germany

Technical data

Dimensions

Width	70 mm
Height	58 mm
Length	510 mm
Note on dimensions	Length without M12 flush-type connector

Ambient conditions

Ambient temperature (operation)	0 °C ... 45 °C
Ambient temperature (storage/transport)	-20 °C ... 75 °C
Permissible humidity (operation)	95 %
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	69 kPa ... 102 kPa
Air pressure (storage/transport)	69 kPa ... 102 kPa
Degree of protection	IP67

General

Note	The PLD M-ME MC/D70 mounting holder (Order No. 2702493) or the PLD M-ME MB/D70 mounting bracket (Order No. 2702494) is required in order to mount the light.
Color	aluminum color
Net weight	1700 g
Mounting type	Screw mounting
Assembly instructions	Mounting with mounting holders or mounting brackets, please observe the notes in the package slip.
Mounting position	any

Power supply for module electronics

Connection technology	M12 connector
Connection method	M12 connector, (A-coded)
Number of positions	4
Permissible conductor cross section	min. 0.34 mm ²
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Current consumption	typ. 0.75 A (at 24 V DC)
Power consumption	approx. 18 W (at 24 V DC)
Type of protection	Surge protection
	Reverse polarity protection

Connection data

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Technical data

Connection data

Connection method	M12 connector, (A-coded)
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Light properties

Source of light type	LED
Number of LEDs	36
Service life, lighting appliance	60000 h (L70)
Light color	Neutral white
Color temperature / wavelength	5000 K $\pm$ 8 %
Color rendering index	85
Luminous flux	approx. 1350 lm (Net luminous flux)
Illumination	max. 662 lx (Distance of 1 m)
Average illumination	506 lx (Distance of 1 m over 1 m ² area)
Emission angle	75 ° (C0-C180)

Standards and Regulations

Immunity to ESD	Noise immunity test in accordance with EN 61547 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 4 kV contact discharge, 8 kV air discharge
Immunity to EF	Noise immunity test in accordance with EN 61547 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, field strength: 3 V/m
Immunity to burst	Noise immunity test in accordance with EN 61547 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, $\pm$ 0.5 kV
Immunity to conducted interference	Noise immunity test in accordance with EN 61547 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, test voltage 3 V
Interference emission	Noise emission test according to EN 61000-6-3 Radio interference properties EN 55015 Class B
Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 4g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 50g
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

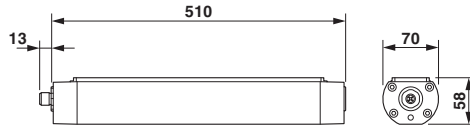
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27110345
eCl@ss 11.0	27110345
eCl@ss 4.0	27110800
eCl@ss 4.1	27110800
eCl@ss 5.0	27119100
eCl@ss 5.1	27119100
eCl@ss 7.0	27119010
eCl@ss 9.0	27110345

ETIM

ETIM 3.0	EC000348
ETIM 4.0	EC000348
ETIM 6.0	EC000302
ETIM 7.0	EC000302

UNSPSC

UNSPSC 6.01	39111510
UNSPSC 7.0901	39111510
UNSPSC 11	39111510
UNSPSC 12.01	39111510
UNSPSC 13.2	39101601
UNSPSC 18.0	39101601
UNSPSC 19.0	39101601
UNSPSC 20.0	39101601
UNSPSC 21.0	39101601

Approvals

Approvals

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ETLus / cETL / cETLus

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

Approvals

Ex Approvals

Approval details

ETLus		http://www.intertek.com	LV-Lighting-Systems
cETL		http://www.intertek.com	Luminaires
cETLus			

Accessories

Accessories

Sensor/actuator cable

Sensor/actuator cable - SAC-4P- 1,5-PUR/M12FS - 1668108



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 1.5 m

Sensor/actuator cable - SAC-4P- 3,0-PUR/M12FS - 1668111



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 3 m

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

Accessories

Sensor/actuator cable - SAC-4P- 5,0-PUR/M12FS - 1668124



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 5 m

Sensor/actuator cable - SAC-4P- 1,5-PUR/M12FR - 1668221



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 1.5 m

Sensor/actuator cable - SAC-4P- 3,0-PUR/M12FR - 1668234



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 3 m

Sensor/actuator cable - SAC-4P- 5,0-PUR/M12FR - 1668247



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 5 m

Necessary add-on products

Mounting holder - PLD M-ME MC/D70 - 2702493



Mounting holder, AlMgSi0,5: Aluminum, for machine lights PLD M 260 .../D70, Swiveling range $\pm 30^\circ$

LED machine light - PLD M 260 W-75/95 510/D70 - 2702485

Accessories

Mounting brackets - PLD M-ME MB/D70 - 2702494



Mounting brackets, stainless, 2A (X5CrNi-18-10): Steel, for machine lights PLD M 260 .../D70, Swiveling range $\pm 65^\circ$